

### ABSTRACT

The present invention provides for fish vaccines and methods of using the fish vaccines to immunize susceptible fish against viral infections. In particular, the present invention is directed to vaccines and methods of immunizing susceptible fish for two aqua-viral diseases, the viral  
5 nervous necrosis (VNN) disease which is caused by nervous necrosis virus (NNV), and infectious pancreatic necrosis (IPN) disease which is caused by infectious pancreatic necrosis virus (IPNV). The vaccines are produced by inactivated viruses which in turn were produced from treatment of viruses that are mass-produced in an immortal cell line derived from *Epinephelus coioides* having an ATCC deposit number of PTA-859.

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